

INFORMATION SHEET

ORDER NO.
JERRY G. BRASSFIELD
BRASSFIELD ESTATE WINERY
LAKE COUNTY

Jerry G. Brassfield (Discharger) owns and operates Brassfield Estate Winery, located at the western end of High Valley, a few miles north of Clear Lake. The winery will process up to 80,000 cases of wine for export and local sale. The winery consists of a 6,000 square foot roofed warehouse and a 6,000 square foot open area for the processing operations.

Wastewater was previously treated using a Rotating Biological Contactor (RBC) with disposal to a landscaped area. The Discharger now wishes to change the treatment and disposal method, as described below.

Wastewater generated from winery processing activities (process/equipment cleaning, barrel washing and washdown operations) will be collected in a series of floor drains both at the crush pad and inside the winery building. The wastewater will gravity flow to an influent pump station where it will be pumped through a force main to a selector tank for sludge bulking control. From this tank, the wastewater will be pumped to either Aeration Pond No. 1 or No. 2. Each of the two aeration ponds will be constructed with two individual layers of 40-mil geocomposite clay liner (GCL) underlain with a leachate collection system between the two GCL layers for leak detection purposes. A 4-inch thick concrete layer will overlie the liner and act as a wear surface to protect the liner from maintenance operations and possible scour from the mechanical aerators. From the ponds, the wastewater will then flow through a clarifier and into storage tanks and a pumping system where supplemental water will be added prior to being discharged to an 8-acre land application area. Activated sludge from the clarifier will either be directly pumped to the selector tank and then to the aeration ponds, or into two sludge drying constructed with a 40 mil high density polyethylene (HDPE) liner with a drain pipe connected to the aeration ponds. This Order requires the Discharger to submit Construction Quality Assurance (CQA) Certification Report signed by a registered professional to document that the aeration ponds were constructed in accordance with the previously submitted CQA plan and are of high quality to provide maximum protection of water quality.

The Discharger estimates a maximum daily process wastewater flow rate of 6,000 gallons per day (gpd) during the peak grape processing period and approximately 1,830 gpd during the off-season. This Order allows for a monthly average flow of 1,830 gpd with higher monthly average flows allowed during the crush season (generally mid-September through mid-November), as long as the total yearly flow does not exceed 762,238 gallons.

Sanitary/domestic wastewater is collected separately from the process wastewater using an on-site sewage disposal system which is regulated by Lake County Environmental Health Department.

The solid/semi-solid wastes such as pomace (skins, seeds, pulp, stems, etc. resulting from the grape crush) is placed into plastic tubs and then spread over the adjacent 80 acre vineyard. The composted waste material is then disced into the soil during spring soil preparation.

This Order establishes effluent limits for wastewater discharged to the land application area based on background groundwater quality, the treatment capability of the wastewater system, the amount of land

that will be irrigated, and the Groundwater Limitation, which does not allow degradation of the groundwater. The effluent limits are specific for this particular site and operating conditions. This Order also requires an extensive monitoring and reporting program, which includes the process wastewater, ponds, land application area, leachate collection and recovery system, solids, and groundwater. The Discharger is also required to evaluate the groundwater degradation caused by its previous wastewater treatment and disposal system and to propose remedial actions to return impacted groundwater to background groundwater quality.

Surface water flows into two drainage channels, one along the south west side of the property which drains into Schindler Creek, and another channel along the northwest side of the property which drains into the main channel below the property. Both these channels drain into Clear Lake.